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Secret

DECLASS REVIEW by NIMA/DOD

Memo for the Record

25X1A

Subject: Meeting concerning the [redacted] Chip Comparator funding situation

25X1A

Attendees: [redacted]

1. At 0900 on the 8th of November the above individuals convened in the Patio room at the request of [redacted] 25X1A to discuss the pending increased funding request of [redacted] 25X1A for the 405AM and 405B Chip Comparators.

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The meeting generally proceeded along the line of the six questions previously circulated by [redacted] (copy attached. 25X1A

2. The financial investment was reviewed with [redacted] as outlined on the attached [illegible] "Clip Computer Financial Status," copy attached. In addition 25X1A 25X1A to approving the request funds of [redacted] a problem exists as to what budget these funds could be appropriated from. The P & M staff was assigned

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the responsibility of making this determination. Some discussion evolved pertaining as to whether the funds would be obtained from class 25 or 31 funds. [redacted] 25X1A stated that the 5 405B comparators were purchased from class 31 funds and that the additional funds should therefor come from class 31 funds. [redacted] 25X1A stated that since the situation was somewhat indefinable, he did not want the matter getting out of the building and that we would therefor end up having to use ~~FY 83~~ FY 84 funds

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~~the responsibility of making this determination,~~
~~base discussion was~~ 25X1A [redacted] also requested that cost estimates, for providing the necessary building facilities and spare parts, be prepared and furnished him as part of the 25X1A total financial commitment. Not discussed but an integral part of the chip comparator installation cost is the cost of relocating the [redacted] Film Reader/Chip detection device to another location. To move the reader will require relocating existing facilities as well as having the manufacturer disassemble and reassemble the machine 3 concerning the time delay in formally telling [redacted] 25X1A of our concern over the performance of the comparators, it was pointed out to [redacted] 25X1A that TDS had been attempting to resolve the difficulties informally on a working level prior

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to the letter of 8 July and that [redacted] personnel were sufficiently aware of our problems with the comparators prior to that time, but had made little progress in resolving the difficulties. The lapsed time was also the direct result of internal difficulties such as, 1) the delays in delivery of peripheral equipments necessary to fully operate the equipment, 2) the restrictions on avaible computer time and check out software, and 3) the lack of qualified test and evaluation personnel.

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4. In relation to the question of who in the Center is responsible for checking to certify if equipment operates properly, considerable discussion evolved. Traditionally the project monitor, on a R+D item, [redacted] is responsible for the acceptance of the equipment and coordinates the operation of the equipment with the operational component when and if they receive it. It was generally agreed that the procedures for overall acceptance of equipment, other than R+D items, and determination of its utilization or effectiveness were largely undefined

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It was ~~suggested~~ suggested that TDS be assigned the responsibility of monitoring the equipment procurement program and the subsequent utilizations of that equipment.

25X1A

[redacted] however, recommended that that function more properly belong in the P & M Staff because of their overall

25X1A

planning and budget responsibilities. [redacted]

25X1A

and [redacted] stated that they were working out procedures to control the procurement of off the shelf equipment, before it get on the approved shopping list.

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5. Concerning the operational status of the comparators, the prototype, 405AM, has been operational in FAS since the 2● of August without any maintance adjustments or downtime. Two of the 405B's are now back at [redacted] 25X1A being reworked and modified and are tentatively scheduled for redelivery to the NPIC about the 27th of November. The remaining three machines are still at the Center in a disassembled form awaiting shippment back to the manufacturer. It was also

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pointed out that the prototype 405AM has only been field modified and that to insure optimum performance it must also be returned to the factory for permanent modifications.

5. Concerning the ship comparators utility with future systems, it was explained that the comparators are basic mensuration devices similar to

X1 those existing [redacted] comparators and are capable of performing precision mensuration on any conventional photographic material

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within the same limitations as the known comparators, except for format size (For the status of the present system capabilities see the attached memo from Chief IPD).

~~6. The Unit does not~~

6. It was generally accepted that the rational for purchasing the 405 B chip comparators prior to testing the 405A prototype was a direct resultant of the fiscal year problem of allocating uncommitted funds. There was no discussion concerning testing procedures

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on the prototype, or the certification of the acceptability of the prototype. The problem of acceptance testing in general was discussed

25X1A

[redacted] stated that he prefers to have performance and acceptability tests of complicated instrumentation requiring special building facilities or extensive relocating costs, performed in the area in which the equipment would eventually be used operationally.

X1A

[redacted] raised the question as to whether we had a requirement for all air

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chip comparators. [redacted] stated that they had not attempted to use the IAS comparator to assist in determination of their requirements but believe that they had a firm requirement for both machines. TID also stated that they had a definite requirement for their machine.

8. The meeting broke up with the understanding that [redacted] there was little choice but to approve the expenditure of funds as requested and that the P & M staff had the responsibility to take the necessary

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action.

9. After the meeting, 25X1A [redacted] brief 25X1A [redacted] on the planning and development of other NPIC sponsored chip handling equipment, showing the relationship of the chip comparators with the other equipment.

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A

Briefing Outline

1. Background on use of chips
2. Background on Real Time Photo Mensuration System
3. Real Time System Plan
4. Photo Chip System
   - A System Components
   - B Interaction of system Components
   - C Affect of components on Mensuration Accuracy
   - D Affect on mensuration principles + T.O.
5. Need for System Test + Evaluation
6. Issues at stake

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B

Briefing of Comparator History

1 June 1963 - Prototype 405A contracted for

2

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405A

25X1A

Delivered 17 July 1964 - [redacted] to plant 8 July for acceptance testing

25X1A

a. [redacted] down on 13 Aug 64 - erratic readout.

b. Insp Rpt dated 15 Oct 64 (Final) - Three service calls by [redacted] to date.

25X1A

= 13 Aug
16-17 Sept
6 Oct

- Lack of operators confidence
- Problems with computer time & software

B - Installed Nov 65 - #1 IAD

25X1A

20 Jan 66 - [redacted] memos
24 Jan 66 " on 405B
8 Feb 66 - " on IAD 405-B.

3-4 Mar 66 " " "

5-6 Apr 66 " 25X1A " "

11 May 66 [redacted] removed & reinstalled this interferometer.

B - Nov 65 TID - Lack of suitable teletype equipment - not used till May 66.

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405B File

25X1A

14 April 64 [redacted] submits proposal for 1-2-45 chip comparator

1 Sept 65 Pre debuging test performed on 2 machines and they performed satisfactorily

Nov 65 405B Installed.

20 Jan 66 Memo from [redacted] 25X1A on chip Comparator reliability

March 66 Inspection Report stating one machine installed but not functioning properly - remaining machine not installed due to lack of peripheral equipment.

10 March 66 - Memo from [redacted] 25X1A here 3 & 4 march to repair comparator

25X1A

5 May 66 Memo from [redacted] here 5 & 6 April to repair comparator - adjustments made 11-19-20-& 29 april - 4 may adjustment attempts unsuccessful

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10 May 66 Detailed memo for the Record on 405B # 1
20 May 66 Detailed memo for the record 405B # 2

8 July 66 Letter to [redacted] 25X1A
22 July " to Lowers from [redacted] 25X1A

9 Sept Letter from [redacted] 25X1A

25X1A

17 Oct 66 Speed letter from [redacted]
Checks concern over situation

25X1A
24 Oct [redacted]
31 Oct Letter from [redacted] to us over results
25X1A
of my visit

23 Jan 67 405AM returned to [redacted] 25X
27 Jan 67 Installation complete

13 March 67 1st serious failure

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